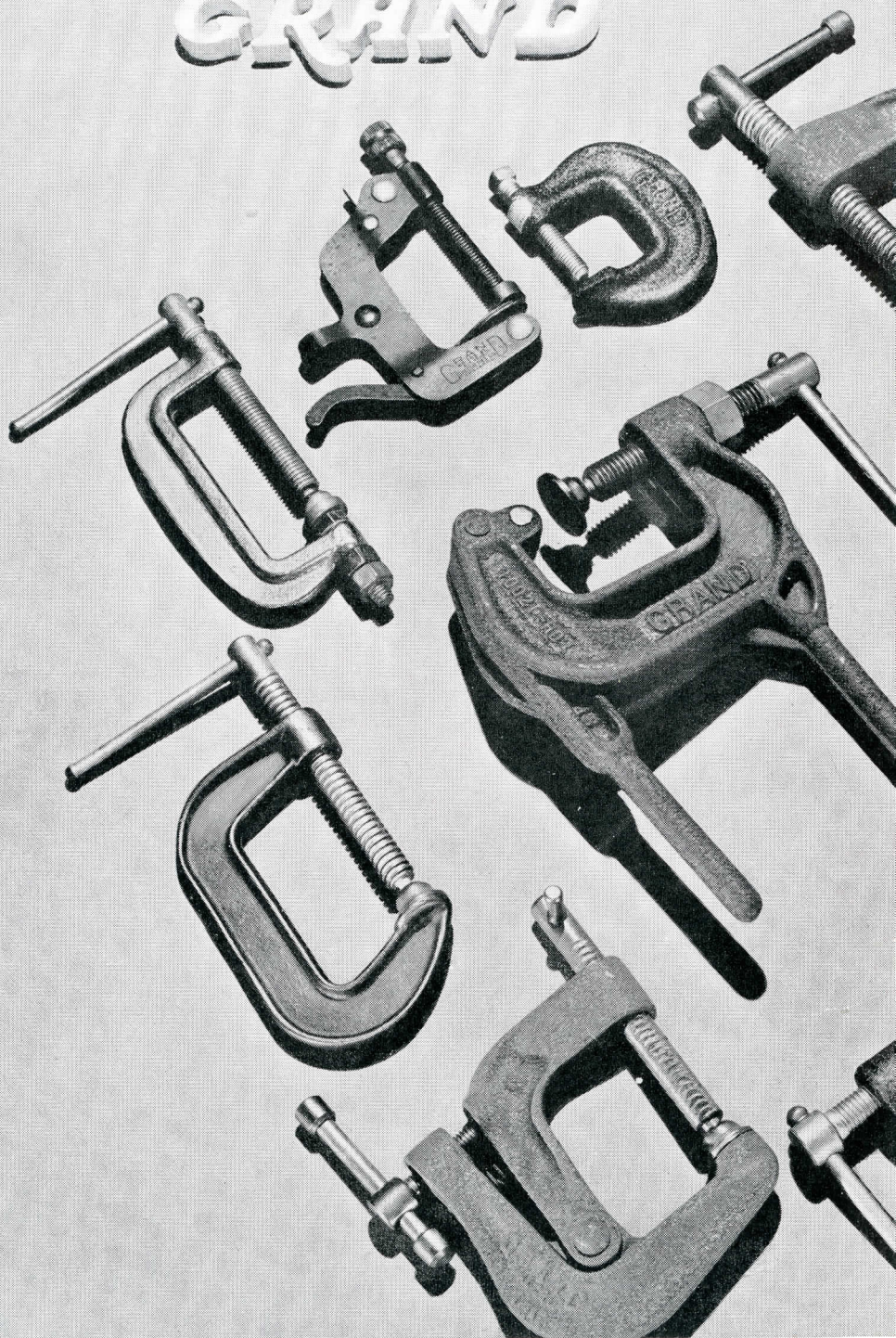


GRAND

Speed Clamps

GRAND SPECIALTIES COMPANY, CHICAGO, U.S.A.

GRAND



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GRAND SPECIALTIES CO.

Grand Avenue at Troy

CHICAGO 22, ILLINOIS



ARMY ORDNANCE BANNER OF MERIT
AWARDED TO GRAND SPECIALTIES COM-
PANY FOR OUTSTANDING ACHIEVEMENT
IN WAR PRODUCTION

GRAND CLAMPS are sold
only thru authorized distrib-
utors and are carried by
all leading supply houses
and equipment dealers . . .
they are identified by the
Trade Mark "GRAND" —
your guarantee of the highest
standard of quality. An in-
spection tag on every clamp
supports this guarantee.

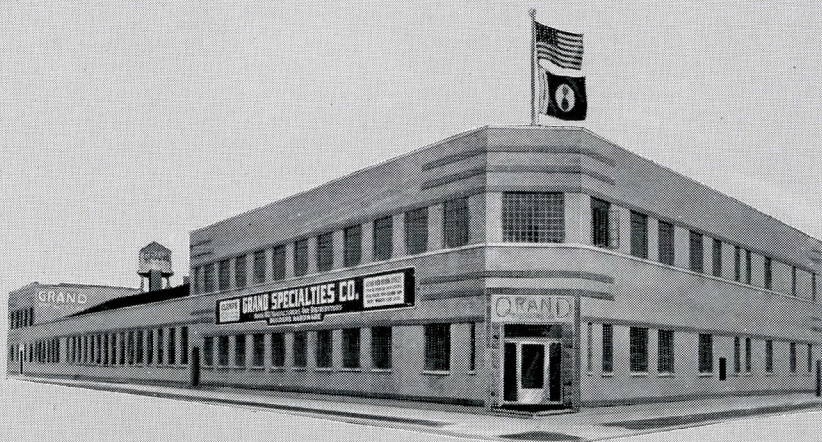
*Grand Specialties Company also manufactures the famous GRAND
Line of DOOR CONTROLS—Safe—Convenient—Modern. A type
and size for every door.*

GRAND *Speed* CLAMPS

The Most Complete and Up-to-the-Minute Line
of Modern Time and Labor Saving Clamps.

Grand Specialties Company has pioneered
in modern clamp engineering and design and
has introduced improved clamps which have
made industrial history in revolutionizing and
speeding up clamping procedure. "GRAND"
clamps are typical of the great advances in
technical design and construction under stim-
ulus of war conditions.

*Manufacturers and Distributors
Since 1921*



GRAND SPECIALTIES COMPANY

Grand Avenue at Troy

Chicago 22, Illinois

GRAND "ALLOY-STEEL" CLAMPS

Strength, Capacities and Proof-Tests
are even greater than those of forged
clamps.

PITTSBURGH

NEW YORK

SAN FRANCISCO

LONDON

ST. LOUIS

ROBERT W. HUNT COMPANY, ENGINEERS
CHICAGO, ILLINOIS

FILE NO. 40002
ORDER B-22476

September 27, 1943

Loading Tests of
"C" Clamps

SUMMARY
P-11122
P-11182
P-12566

REPORT
PAGE 1

Grand Specialties Co.
3101 W. Grand Ave.
Chicago, Ill

Attn: Mr A. M. Sasgen

Gentlemen:

In accordance with instructions, we have made
loading tests of clamps submitted to our laboratories.

Following are the results obtained by us:

Date Received	Size	Marking	Maximum Load-lbs.
1-2-43	7"	--	11,590
3-17-43	1-1/2"	#1	6,820
3-17-43	1-1/2"	#2	5,470
5-22-43	7/8"	#1	4,630
5-22-43	7/8"	#2	5,260

Respectfully submitted
ROBERT W HUNT COMPANY

W. A. Chapman
W. A. Chapman
Manager of Laboratories

WAC:MB

GRAND *Speed* CLAMPS



QUICKCET

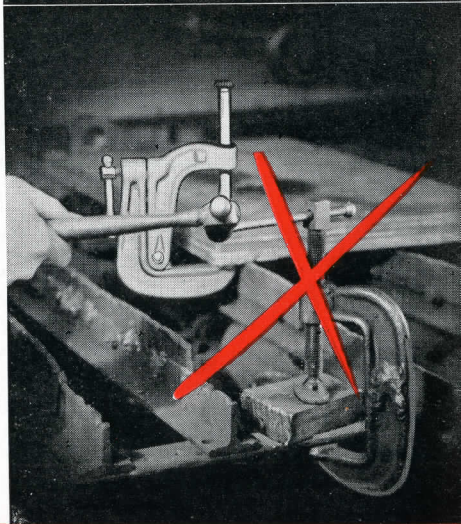
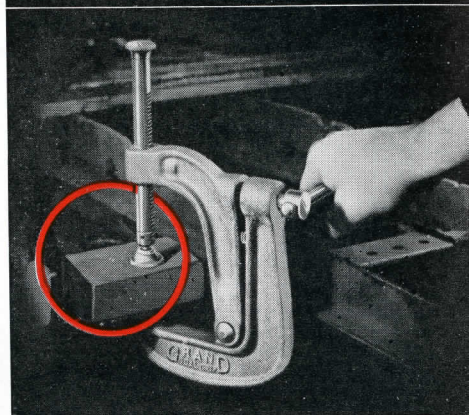
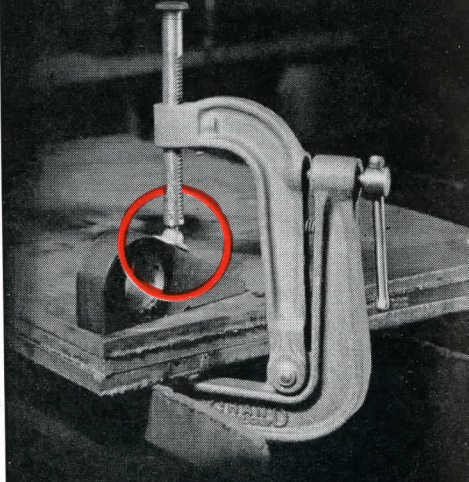
For Fast (4-second) Clamping. A strictly heavy duty clamp that goes on the work in $\frac{1}{4}$ or less the time required to apply an ordinary "C" clamp. The many exclusive features of this outstanding Speed Clamp are fully described on pages 6 to 9 inclusive.

GRAND QUICKCET

This picture shows the holding power of a QUICKCET clamp on a beveled surface. The powerful fulcrum tightening on a ball and socket swivel (replaceable) prevents the shifting or creeping common to other "C" clamps.

Here is the simple tightening action of QUICKCET clamps. After the clamp is set by a quick push on the ratchet rod, fast, tight clamping is accomplished with only a few short turns of the vise-like fulcrum screw.

No forced pressure is required to fasten the clamp. The fulcrum screw forces the ratchet rod *directly down* on the work with all the power needed to hold the work tight and to prevent all movement in any direction. Screws and Rods are *copper plated* to prevent damage from welding spatter.



GRAND QUIKCET

NO SHIFTING . . . NO TURNING . . . The QUIKCET clamp is designed to set fast and hold tight, even on tapered surfaces, without moving or creeping. Powerful double-action grip and simple clamping action. This modern clamp has special analysis cast steel body that has 5 to 10 times the strength of an ordinary malleable iron clamp.

A Here is shown the ratchet rod assembly with pawl and spring encased in the alloy steel casting. This is the "quick set" feature. 4 to 6 teeth in pawl, each tooth holding over 2,200 lbs. Pawl and ratchet rod are heat treated for extra strength.

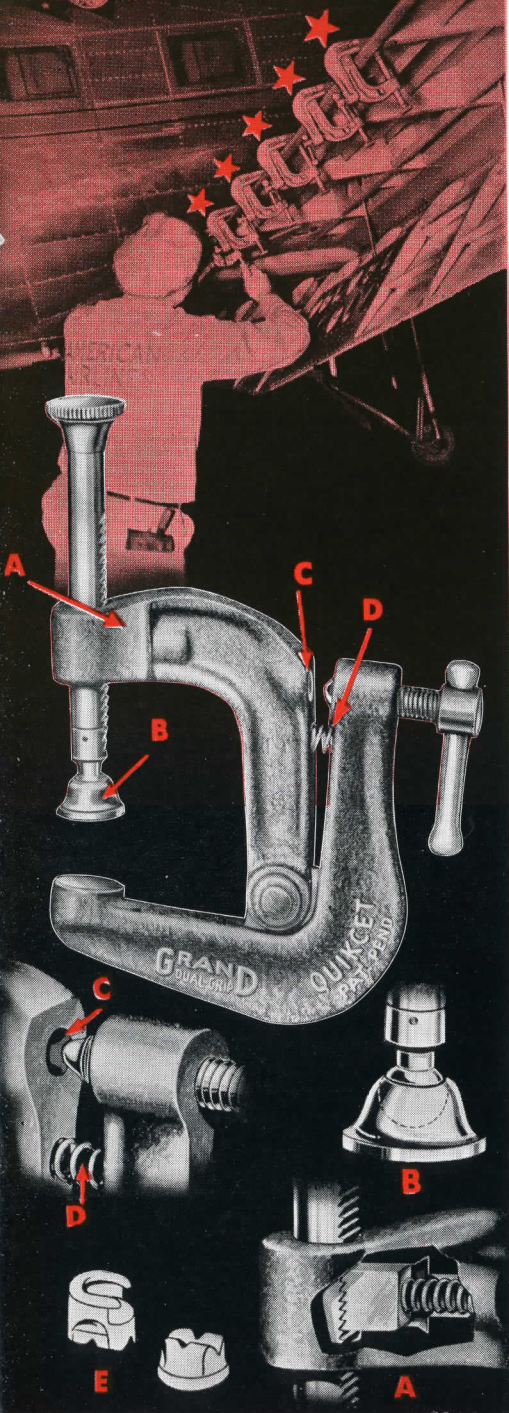
B This is the replaceable swivel in ball and socket joint designed for tighter holding and less breakage.

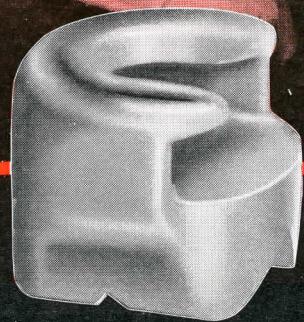
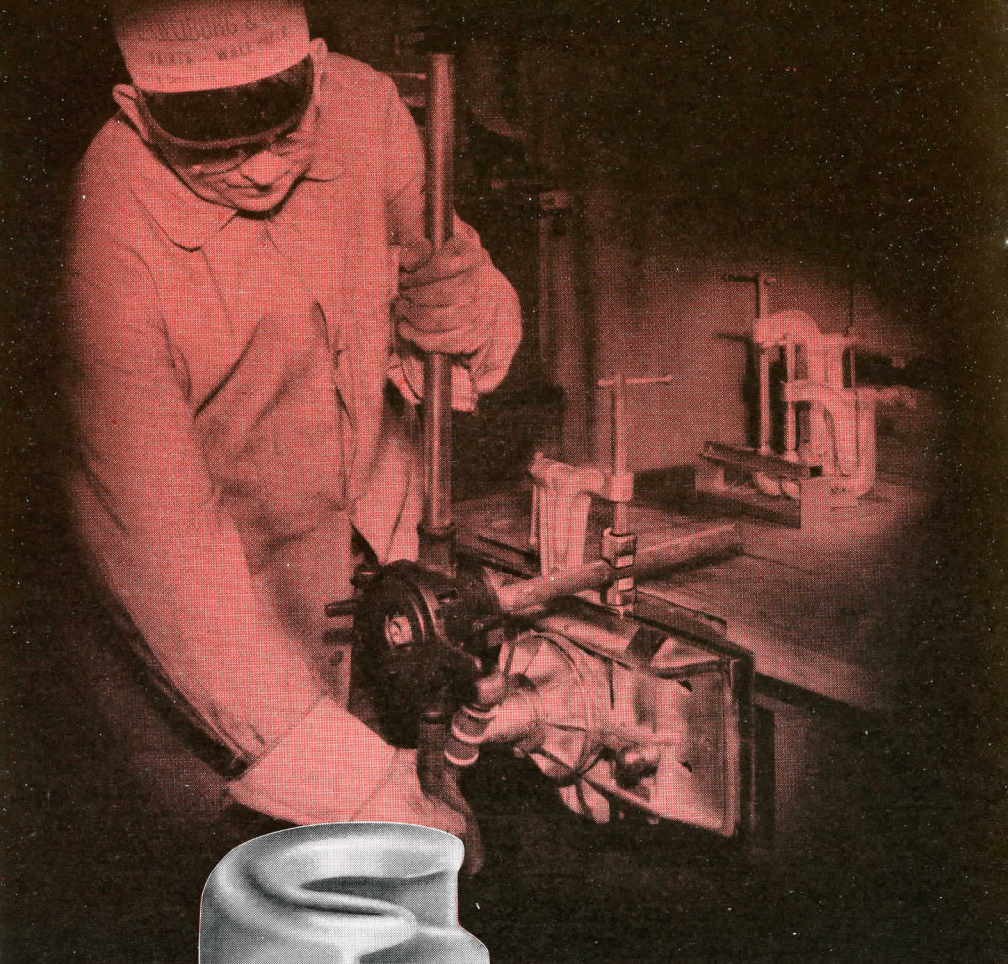
C At this point the clamp casting is case-hardened for full-crum screw contact.

D The tension spring shown here permits one-hand grip for setting and release of clamp on work.

E Slip-on "V" jaws for holding pipe, rod or tubing without damage.

Full Opening Rods are furnished on all QUIKCET clamps except 6" (the largest opening) which have rods extending to 2" above clamp bottom. Long, full opening rods will be furnished on request—no extra charge.





GRAND V-JAWS

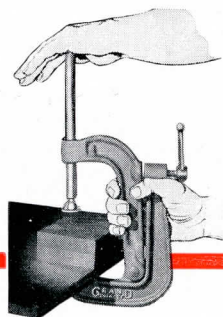
Slip on V-Jaws permit tight clamping of pipe, conduit, tubing, etc., without damage. Jaws slip on instantly. Fit QUICKCET and all GRAND Clamps except GRAND "Alloy-Steel."

GRAND *Quikcet*

Saves 75% of Clamping Time

A strictly heavy duty clamp that can be applied and tightened in 4 seconds and released instantly—a quarter turn of the ratchet rod permits it to slide free. On duplicating production operations, once “zipped” to size the “set” of the ratchet rod remains constant—a turn of the back screw tightens or releases—but the clamp will not fall off the work as the small coil spring between segments of the clamp body holds it lightly in position. By gripping the clamp the spring is compressed and clamp may be easily slipped on the next piece where the spring holds it in position for tightening—ends the wasted time of picking-up, laying-down and turning and twisting.

When setting the clamp on new work position it with one hand, while pushing the ratchet rod down with the other (the small coil spring between segments of the clamp will then hold it in place). Tighten with a turn or two of the conveniently located back screw which applies the powerful fulcrum leverage.



GRAND QUIKCET CLAMPS—ALLOY STEEL

No.	Opening	Depth Center	Weight Each	Price Each
202A	2"	2"	2 lb.	\$4.50
303A	3"	2½"	3¾ lb.	5.00
404A	4"	2¾"	4½ lb.	5.50
606A	6"	3"	5¾ lb.	6.50

Finish: Stone gray wrinkle enamel. All screws, swivels, ratchet rods and loose-proof (vise-type) handles of Quikcet clamps are COPPER PLATED to prevent damage from welding spatter. V-JAWS for all size clamps—per pair **\$1.00**

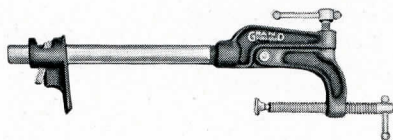


QUIKCET BAR CLAMP

Fast tightening Bar Clamp with double action screw and controlled fulcrum leverage. Bar extension furnished to any length.

GRAND

Bar Clamp



The Quikcet Bar Clamp embodies the powerful fulcrum leverage principle of the Quikcet "C" clamp with side screw tightening on turn screw, equipped with ball and socket swivel (replaceable), to prevent the shifting common to other bar clamps. Sliding jaw which holds firm leverage grip on bar can be instantly released when not under leverage and slipped to new position on the bar, requiring only one or two turns of the side screw for re-tightening on the work. No other adjustment is necessary.

GRAND QUIKCET BAR CLAMP ALLOY STEEL

No.	Opening	Depth Center	Weight Each	Price Each
4-12A	15"	2¾"	6 lb.	\$7.50

Bar extension of any length can be furnished at 50c per foot extra.

Finish: Stone gray wrinkle enamel, Bar, screws, swivel and loose-proof (vise-type) handles are COPPER PLATED to prevent damage from welding spatter.



GRAND ALLOY-STEEL "C" CLAMP

Medium Service of Forged Clamp Capacity. A new advance in medium service clamps for mass production. An ideal general use clamp for all purposes where the extra weight of heavy duty clamps is not required.

GRAND

Alloy-Steel

Medium Service of Forged Clamp Capacity

Strength, capacities and proof tests of these "Alloy-Steel" spatter-proofed "C" clamps are *even greater* than those of forged clamps. This is demonstrated by results of proof tests, as follows:

No.	Max. Opening	Approx. Weight	Approx. Proof Test
4-ASM	4"	4½ lb.	8,000 lb.
6-ASM	6"	5½ lb.	9,000 lb.
8-ASM	8"	7¼ lb.	10,000 lb.
10-ASM	10"	8½ lb.	11,000 lb.

These are ideal general use clamps for all purposes where the extra weight of heavy duty clamps is not required. Grand "Alloy-Steel" clamps cost less, yet have these outstanding features: Replaceable swivel on ball and socket joint for tighter holding and to prevent "creeping." Hardened screws and swivels are *copper plated* to prevent damage from welding spatter. Equipped with loose-proof (vise-type) *copper plated* handles which will not come out.

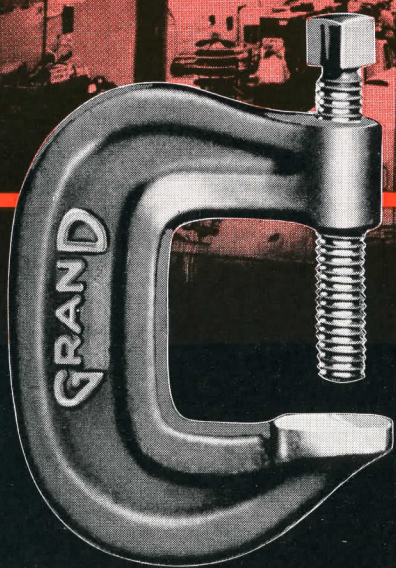
GRAND SPATTER-PROOFED "ALLOY-STEEL" "C" CLAMPS

Medium Service of Forged Clamp Capacity

No.	Opening Max. Min.	Depth Center	Diameter of Screw	Weight Each	Price Each
4-ASM	4" 5/8"	2 3/8"	3/4"	4½ lb.	\$4.00
6-ASM	6" 2 5/8"	2 1/2"	3/4"	5½ lb.	5.00
8-ASM	8" 4 11/16"	2 3/4"	3/4"	7¼ lb.	6.00
10-ASM	10" 7"	2 3/4"	3/4"	8½ lb.	7.00

Finish: Black wrinkle enamel. Hardened steel screws, swivels and loose-proof (vise-type) handles are COPPER PLATED.

Full screws can be furnished on Nos. 6, 8 and 10 at slight additional charge, but proof-test figures do not apply on these clamps with full length screws.



GRAND ALLOY-STEEL "C" CLAMP

Heavy Service of Forged Clamp Capacity. A small but powerful heavy service clamp for mass production.



Heavy Service of Forged Clamp Capacity

Proof tests of these small but powerful "Alloy-Steel" Heavy Service "C" clamps show even greater strength and capacities than forged clamps of comparable sizes as evidenced by the following figures, yet cost is less.

No.	Max. Opening	Approx. Weight	Approx. Proof Test
¾-ASH	¾"	½ lb.	2,000 lb.
1-ASH	1¼"	¾ lb.	4,500 lb.

These clamps are recommended for every heavy duty tool room kit. Square end, hardened screw is *copper plated* to prevent damage from welding spatter.

GRAND SPATTER-PROOFED "ALLOY-STEEL" "C" CLAMPS

Heavy Service of Forged Clamp Capacity

No.	Opening Max. Min.	Depth Center	Diameter of Screw	Weight Each	Price Each
¾-ASH	¾" 0	¾"	5/16"	½ lb.	\$1.00
1-ASH	1¼" 0	1⅞"	3/8"	¾ lb.	1.50

Finish: Black wrinkle enamel. Square end, hardened screws are COPPER PLATED.





A NATIONALLY ADVERTISED LINE

GRAND SPEED CLAMPS are constantly advertised in the leading industrial and mechanical magazines, papers and catalogs of the United States and Canada. In addition to this consistent advertising support all Grand Specialties Company jobbers and dealers are supplied with attractive direct mail literature, instruction folders, catalog inserts, material for house organs, etc. Every distributor of Grand Clamps is handling a line with national recognition and acceptance.



HEAVY DUTY SPEED CLAMPS

Two-handed, instant tightening, lever operated clamps built to speed up handling of large heavy work. The best plate-pulling clamps. Will hold down on buckled plates.

GRAND

Heavy Duty

SPEED CLAMPS

These are two-handed, lever-operated clamps for speedy handling of large, heavy work—welding heavy plate, building dies, bulky weldments, etc. These are the best plate-pulling clamps—will hold down on buckled plates. With the combination screw and locking lever action they adapt themselves to production use on identical pieces—screw can be set and locked for a given opening and clamp instantly applied or released with a single movement.

The No. 1002-HD Heavy Duty Clamp is made of “Alloy-Steel” of forged clamp capacity. Strength and capacity of this clamp are *even greater* than those of similar forged clamps. Approximate proof test is 8400 lbs.

The Giant Heavy Duty Clamps Nos. 1005-HD, 1008-HD and 1010-HD are made of heavy steel plate and built for dependable service in handling the heaviest kind of work. Screw with adjustable hardened grooved swivel can be set and tightened for a given opening and the bottom lever handle locked in rigid position with the attached staple. Upon removing the staple clamp is instantly released with single lever movement. Other clamps made of heavy steel plate are being built to specification as to depth center and opening.

GRAND HEAVY-DUTY SPEED CLAMPS

No.	Opening	Depth Center	Approx. Wt. Per Clamp	Price Each
1002-HD	13 $\frac{1}{4}$ "	13 $\frac{1}{4}$ "	4 $\frac{1}{2}$ lbs.	\$ 5.50
1004$\frac{1}{2}$-HD	4 $\frac{1}{2}$ "	5 $\frac{1}{4}$ "	30 lbs.	30.00
1010-HD	10 $\frac{1}{2}$ "	8"	45 lbs.	45.00

Types 1004 $\frac{1}{2}$ and 1010-HD are cut out of heavy steel plate and have combination screw and Locking-Lever Action for instant application.

PRICES FURNISHED PROMPTLY UPON REQUEST FOR ADDITIONAL SIZES IN OPENING AND DEPTH CENTER (THROAT) CAPACITIES.

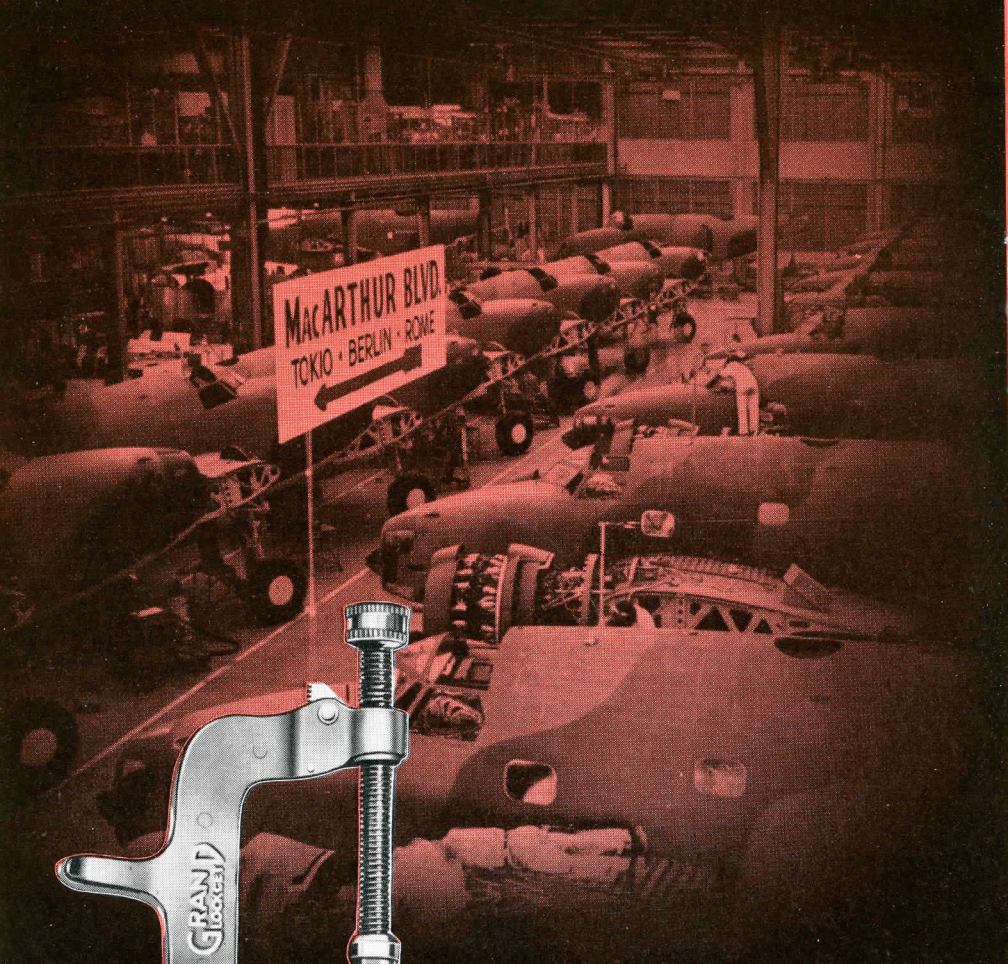
Grand Heavy-Duty Steel-Plate Clamps

These clamps are also cut out of heavy steel plate but without levers.

1004-BM	4"	5 $\frac{1}{4}$ "	20 lbs.	\$27.50
1005-BM	5"	5 $\frac{1}{4}$ "	22 lbs.	29.50
1008-BM	8"	5 $\frac{1}{4}$ "	28 lbs.	35.50

PRICES FURNISHED PROMPTLY UPON REQUEST FOR ADDITIONAL SIZES IN OPENING AND DEPTH CENTER (THROAT) CAPACITIES.

All swivels and hardened screws are Spatter-Proofed thru copper plating of .005 of an inch on each side.



QUICK LOCKET with Trigger Release

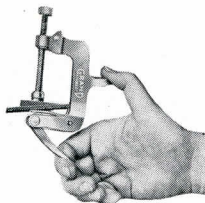
For light, fast work. Swinging, locking lever, gib seat and ratchet screw with instant trigger release action. Special model for Aluminum, Soft Metals and Fabrics.

GRAND

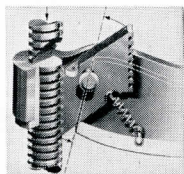
Quick Lockcet

(With Trigger Release)

For light, fast work few clamps can equal the Grand Quick Lockcet. The swinging, locking lever, gib seat makes it non-creeping and assures a firm grip on any parallel, slanting or rounded surface. Free acting swivel with fibre face prevents marring or scarring. Spring tension holds to desired opening. Trigger release action (illustrated and described below) frees screw instantly with a single motion for re-setting to any opening height or permits immediate re-clamping to other work of same thickness without any further screw adjustment.



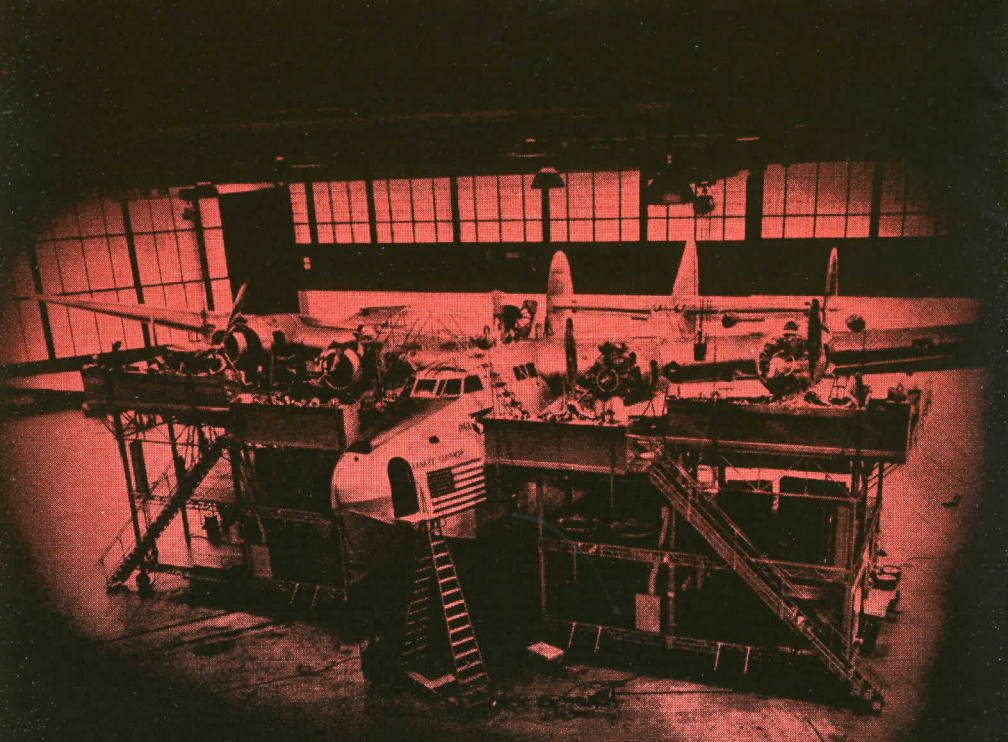
For Aluminum, Soft Metals and Fabrics we recommend special models Nos. 102-QLF and 132-QLF. These have all the speed and precision advantages of Quick Lockcet Trigger Release Action and fibre faced free acting swivel for non-moving grip but are without cam lever in order to permit application under close working conditions. Furnished with loose-proof (vise-type) handle for precise setting of clamp. All Quick Lockcet clamps are made of spring steel—heat treated. Proof test approximately 2500 lbs.



The Quick Lockcet Trigger Release Action is illustrated by diagram at left. Spring tension and trigger teeth hold firm ratchet grip on screw which releases instantly with trigger pressure by thumb or finger, so that screw may be slipped to any desired position with a single motion.

GRAND QUICK LOCKCET CLAMPS—HEAVY GAUGE STEEL

No.	Opening	Depth Center	Weight Per Doz.	Price Each
102-QL	2"	1 1/4"	7 lb.	\$1.50
*132-QL	2"	3"	9 lb.	2.00
For Aluminum, Soft Metals and Fabrics				
102-QLF	2"	1 1/4"	7 lb.	\$1.50
*132-QLF	2"	3"	9 lb.	2.00
All screws, swivels, trigger release actions, knurled heads and loose-proof (vise-type) handles are COPPER PLATED to prevent damage from welding spatter.				
*NOTE: Due to wartime material restrictions Nos. 132-QL and 132-QLF cannot be supplied until these restrictions are lifted.				



GRIPLOC with Trigger Release

A deep throated, quick-acting production clamp with locking lever at side. Double fulcrum direct-line pressure and ratchet screw with instant trigger release action.



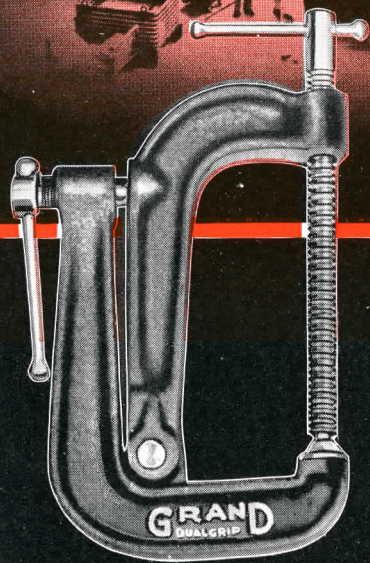
(With Trigger Release)

Note: Due to wartime material restrictions this new Grand clamp cannot be manufactured for duration of the war or until such restrictions are lifted. It is shown here as typical of the improved speed clamps which Grand Specialties Company will continue to design and produce to meet the progressive requirements of modern industry. When this clamp is available a supplemental sticker will be issued and can be used to block out this note.

The Grand Griplac with Trigger Release Action and cam lever at side is one of the hardest, deep-throated, quick acting little production clamps yet designed. Knurled head for fast screw adjustment. Double fulcrum direct-line pressure and free acting fibre-faced swivel assures a firm grip on all flat, slanting or irregular surfaces. Cam lever at side is instantly tightened with a trigger grip, and permits clamping under close working conditions. Spring tension ratchet grip on screw is released instantly with trigger pressure by thumb or finger, so that screw may be slipped to any desired position with a single motion.

GRAND GRIPLOC CLAMP—ALLOY STEEL

No.	Opening	Depth Center	Weight Each	Price Each
*232-T	2 1/4"	3 1/4"	2 lb.	\$4.50
Screw, knurled head, swivel and trigger release action are COPPER PLATED to prevent damage from welding spatter.				
*NOTE: This clamp cannot be manufactured until wartime material restrictions are lifted. When available it will be made in other sizes on request.				



DUAL GRIP

For fast clamping and tighter holding. Double action screw provides controlled leverage and double fulcrum pincer grip. Releases with single turn. Side tightening for close corners.

GRAND

Dual Grip

The Grand Dual Grip is a double-action, side-tightening malleable clamp made for easier, faster and tighter grip clamping. On straight, off-parallel or irregular surfaces a firm hold is assured because the pincer action—a direct application of pressure without internal strain or torque—prevents the clamp from creeping or shifting. Preliminary adjustment is made in conventional manner with strong, square thread clamp screw. The double-action side screw then brings jaw directly down on work with controlled leverage—prevents turning or shifting, thus eliminating extra holding hand as clamp may be quickly tightened without holding work. Fulcrum leverage gives convenient and fast tightening and permits permanent set for production work. This Dual Grip clamp *can be used where lack of space would prevent* the screw on ordinary clamps from being turned. It is only necessary to set the clamp to slip over work and tighten quickly with the side screw. No back hand under-the-table tightening is necessary.

GRAND DUAL GRIP CLAMPS—MALLEABLE IRON

No.	Opening	Depth Center	Weight Each	Price Each
33A	3"	2½"	3¾ lb.	\$3.50
44A	4"	2¾"	4½ lb.	3.75
66A	6"	3"	5¾ lb.	3.95

Finish: Blue wrinkle enamel. All screws, swivels and loose-proof (vise-type) handles are COPPER PLATED to prevent damage from welding spatter.

Grand Slip-on V-Jaws for tight clamping of pipe, tubing etc. without damage. Supplied in sets of 2. \$1.00 per pair.



MACHINIST'S GRAND "C" CLAMP

**A stronger body, heavy duty clamp
with replaceable tool steel hardened
seat and swivel.**

GRAND

Machinist's

(Heavy Duty "C" Clamp)

This is a heavier bodied and stronger malleable clamp with hardened screw and replaceable hardened steel seat and swivel which have specially grooved grips for tighter holding. This clamp is unusually stiff and strong for a malleable clamp. For protection when used around welding operations the screw and loose-proof (vise-type) handle, as well as hardened steel seat and swivel, are *copper plated* to prevent damage from welding spatter.

GRAND MACHINIST'S HEAVY DUTY "C" CLAMP

No.	Opening	Depth Center	Price Each
L-20	2 $\frac{5}{8}$ "	1 $\frac{1}{4}$ "	\$2.00
Finish: Green wrinkle enamel. Screw, handle, swivel and seat are COPPER PLATED.			



WELDER'S GROUND CLAMP

A completely COPPER PLATED clamp. Hardened screw serves as seat and extends thru foot of clamp with double nuts for attaching ground wire.

GRAND

*Welder's
Ground Clamp*

A completely *copper plated*, heavier bodied and stronger malleable clamp with hardened steel screw and replaceable swivel, and loose-proof (vise-type) handle which will not come out. For seat, this Welder's Ground Clamp has a hardened *copper plated* screw, the head of which serves as the clamp seat and the body of the screw extends thru the foot of the clamp and carries double *copper plated* nuts for attaching the ground wire.

GRAND WELDER'S GROUND CLAMP

No.	Opening	Depth Center	Price Each
L-20-G	2 $\frac{5}{8}$ "	1 $\frac{1}{4}$ "	\$2.75
Finish: Entire clamp is COPPER PLATED.			



**GRAND "DeLux"
"C" CLAMP**

A stronger malleable clamp with standard jaw and COPPER PLATED screw, swivel and vise type handle.

GRAND "De Lux"

(Spatter-Proofed "C" Clamps)

The *Grand* line of "De Lux" malleable "C" clamps. These stronger malleable iron clamps have standard type jaws and replaceable swivels on ball and socket joints for tighter holding. Screws, swivels and loose-proof (vise-type) handles which will not come out are *copper plated* to prevent damage from welding spatter. *Grand* "De Lux" clamps are made in eight comprehensive sizes and are priced in dozen lots.



GRAND "DE LUX" SPATTER-PROOFED CLAMPS—MALLEABLE IRON

No.	Opening	Depth Center	Weight Per Doz.	Price Per Doz.
2	2 1/2"	1 3/8"	14 lb.	\$9.00
3	3"	1 3/8"	16 lb.	10.00
4	4"	2"	20 lb.	12.00
5	5"	2"	27 lb.	15.00
6	6"	2 1/2"	30 lb.	18.00
8	8"	3 3/8"	42 lb.	28.00
10	10"	3 1/2"	60 lb.	36.00
12	12"	3 7/8"	95 lb.	46.00

All screws, swivels and loose-proof (vise-type) handles are COPPER PLATED.

GRAND SLIP-ON "V" JAWS for all size clamps. Slip on V-JAWS permit tight clamping of pipe, conduit, tubing, etc., without damage. Jaws slip on instantly. Fit all clamps (except GRAND "Alloy-Steel"). Supplied in sets of two.....\$1.00 per pair

GRAND

Accessories

REPLACEMENT PARTS for all GRAND CLAMPS

List Prices

No.	Screw & Handle	Swivel	Side Screw & Handle	Ratchet Rod	Pawl	Pawl Spring	Tension Spring
33A	\$0.80	\$0.25	\$0.60	.....	.....	.....	.....
44A	.90	.30	.60	.....	.....	.....	.....
66A	1.20	.35	.70	.....	.....	.....	.....
202A	.....	.25	.55	\$0.70	\$0.35	\$0.18	\$0.18
303A	.....	.25	.55	.85	.35	.18	.18
404A	.....	.30	.60	1.00	.45	.18	.18
606A	.....	.35	.70	1.15	.45	.18	.18
4-12A	.....	.30	.60	.....	.....	.....	.....
2	.40	.25	.....	.....	.....	.....	.....
3	.45	.25	.....	.....	.....	.....	.....
4	.55	.25	.....	.....	.....	.....	.....
5	.65	.30	.....	.....	.....	.....	.....
6	.80	.35	.....	.....	.....	.....	.....
8	1.20	.35	.....	.....	.....	.....	.....
10	1.70	.35	.....	.....	.....	.....	.....
12	2.00	.35	.....	.....	.....	.....	.....
4-ASM	1.35	.35	.....	.....	.....	.....	.....
6-ASM	1.35	.35	.....	.....	.....	.....	.....
8-ASM	1.35	.35	.....	.....	.....	.....	.....
10-ASM	1.35	.35	.....	.....	.....	.....	.....
	Screw only						
¾-ASH	.25	.....	.....	.....	.....	.....	.....
1-ASH	.30	.....	.....	.....	.....	.....	.....

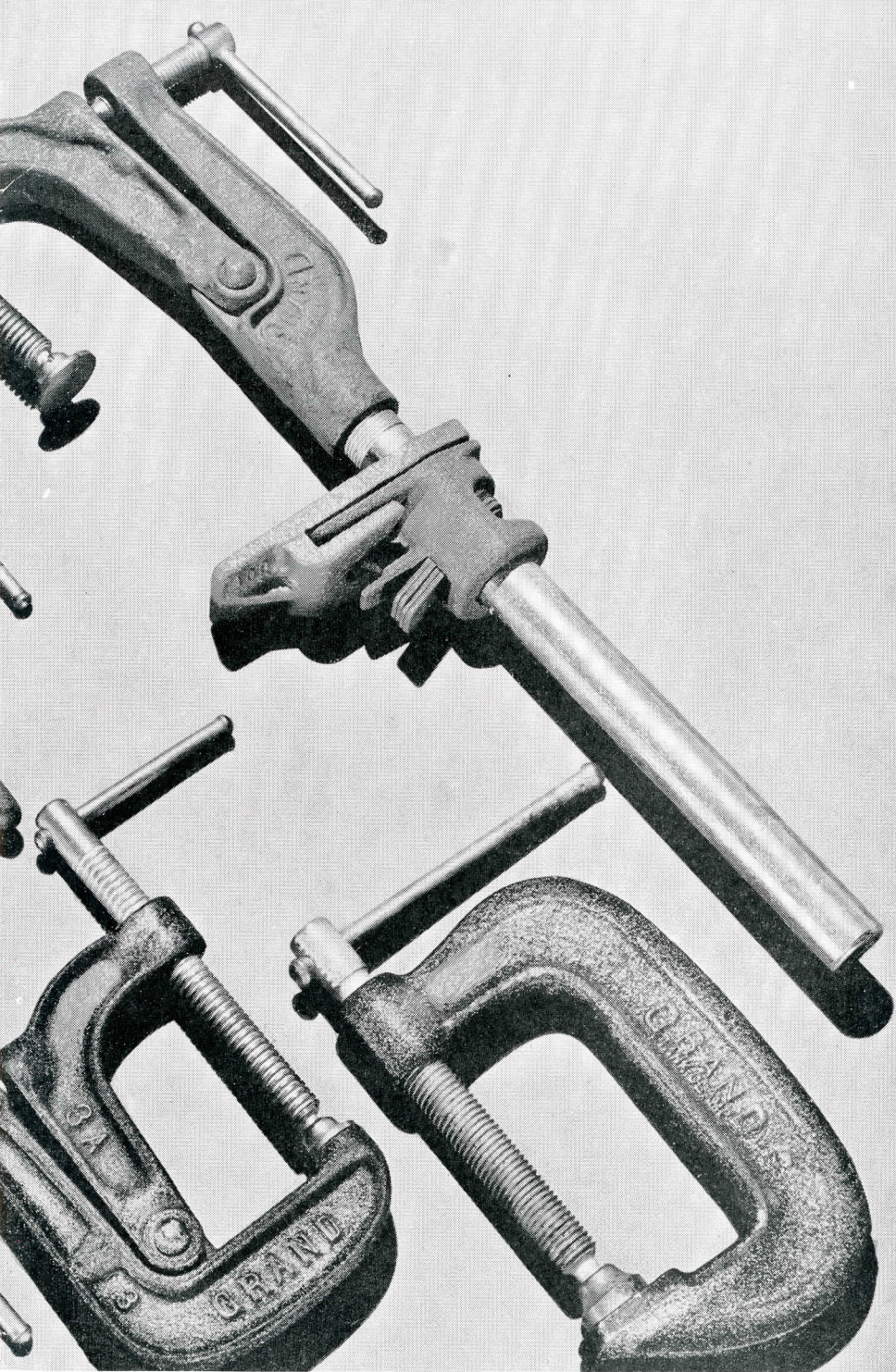
GRAND SPATTER-PROOFED "ALLOY-STEEL" CLAMPS Equipped with Full Length Screws

No. 6-ASM	\$5.50
No. 8-ASM	6.65
No. 10-ASM	7.80

Separate Full Length Screws with Handles

No. 6-ASM	1.85
No. 8-ASM	2.00
No. 10-ASM	2.15

SPECIAL NOTE: Proof test capacities as quoted on page 13 for Nos. 6-ASM, 8-ASM and 10-ASM clamps do not apply when these clamps are equipped with *full length* screws.





GRAND SPECIALTIES COMPANY, CHICAGO, U.S.A.